

CLAIMS

1. A coating apparatus comprising:

5 a first roll that contacts with base paper traveling continuously, directly or through a second roll;

a cylindrical rod with an outer peripheral surface which is disposed parallel to said first roll and also engages with said first roll and rotates in a predetermined direction;

10 a coating layer, formed on the outer peripheral surface of said rod, which has the property of releasing a coating liquid; and

coating-liquid supply means for supplying said coating liquid to a nip surface portion between said first  
15 roll and said rod in said predetermined direction;

wherein said coating liquid supplied from said coating-liquid supply means forms a film of coating liquid on the outer peripheral surface of said first roll, and after a thickness of said coating-liquid film is adjusted  
20 at said nip surface portion, the thickness-adjusted film is transferred from said first roll onto a surface of said base paper directly, or indirectly through said second roll.

25 2. The coating apparatus as set forth in claim 1, wherein said coating layer is formed from silicon resin.

3. The coating apparatus as set forth in claim 1, wherein said coating layer is formed from fluorine-contained resin.

5 4. The coating apparatus as set forth in claim 1, wherein said coating layer is a plating layer which has the property of releasing a coating liquid.

10 5. The coating apparatus as set forth in claim 1, wherein the outer peripheral surface of said rod has fine unevenness on which said coating layer is formed.

15 6. The coating apparatus as set forth in claim 1, further comprising a rod holder, disposed parallel to said first roll, for supporting said cylindrical rod, said rod holder having:

20 a supporting hole in which said cylindrical rod is rotatably fitted via a lubricating liquid, said supporting hole having an opening confronting the outer surface of said applicator roll, through which opening part of the outer surface of said cylindrical rod, which is being fitted in said rod holder, is exposed;

25 a recess which is formed on a side of said rod holder opposite to the side on which said supporting hole 7a is provided, said rod holder being constricted between said supporting hole 7a and said recess 7d; and

a tube fitted in said recess, said tube being adapted

to be controlled in expansion.

7. A method of manufacturing coated paper,  
comprising the steps of:

5 forming a coating layer, which has the property  
of releasing a coated liquid, on an outer peripheral surface  
of a cylindrical rod;

disposing said rod in parallel with a first roll,  
then engaging said rod with said first roll, and rotating  
10 said rod in a predetermined direction;

supplying said coating liquid to a nip surface  
portion between said first roll and said rod in said  
predetermined direction;

15 forming a film of coating liquid on the outer  
peripheral surface of said first roll, and then adjusting  
a thickness of said coating-liquid film at said nip surface  
portion; and

transferring the thickness-adjusted film from  
said first roll onto a surface of said base paper directly,  
20 or indirectly through said second roll.

8. A coating apparatus, comprising:

a first roll that contacts with base paper traveling  
continuously, directly or through a second roll;

25 a cylindrical rod with an outer peripheral  
surface, disposed parallel to said first roll to engage  
with said first roll, said cylindrical rod being supported

by a rod holder in such a way that said cylindrical rod can rotate in a predetermined direction; and

coating-liquid supply means for supplying said coating liquid to a nip surface portion between said first  
5 roll and said rod in said predetermined direction,

wherein said coating liquid supplied from said coating-liquid supply means forms a film of coating liquid on the outer peripheral surface of said first roll, and after a thickness of said coating-liquid film is adjusted  
10 at said nip surface portion, the thickness-adjusted film is transferred from said first roll onto a surface of said base paper directly, or indirectly through said second roll, and

wherein said rod holder, disposed parallel to  
15 said first roll, for supporting said cylindrical rod has:

a supporting hole in which said cylindrical rod is rotatably fitted via a lubricating liquid, said supporting hole having an opening confronting the outer surface of said applicator roll, through which opening  
20 part of the outer surface of said cylindrical rod, which is being fitted in said rod holder, is exposed;

a recess which is formed on a side of said rod holder opposite to the side on which said supporting hole 7a is provided, said rod holder being constricted  
25 between said supporting hole 7a and said recess 7d; and

a tube fitted in said recess, said tube being adapted to be controlled in expansion.